20030406.qrp v02_n882.qrl.20030406

Date: Sun, 6 Apr 2003 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2882

QRP-L Digest 2882

Topics covered in this issue include:

  1) [148587] New edition of HW-8 Handbook to debut at Dayton
     by Mike Czuhajewski <wa8mcq@comcast.net>
  2) [148588] Rotary Inverter (Dynamotor) Hookup info needed
     by Lenny Wintfeld <w2bvh@comcast.net>
  3) [148589] Shielded twin lead
     by Dave Hottell <hottell@gulftel.com>
  4) [148590] Re: QRP Net Directory
     by Alex <kr1st@amsat.org>
  5) [148591] Re: Rock Mite Question
     by Nelson Winter <thenels@go.com>
  6) [148592] Re: QRP rig pix updates
     by Jerry Lofstead <w3cde@bellsouth.net>
  7) [148593] Dentron Jr. Monitor
     by Bruce Rattray <rattray@gpfn.sk.ca>
  8) [148594] Digital scopes
     by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
  9) [148595] Re: /QRP vs /Q
     by "Tom" <thom2@worldnet.att.net>
 10) [148596] RE: QRP rig pix updates
     by "AI2Q" <ai2q@adelphia.net>
 11) [148597] Re: /QRP vs /Q
     by "KB0VCC" <kb0vcc@adelphia.net>
 12) [148598] RE: 50 Amp shunts
     by "Merton Nellis" <mertnellis@msn.com>
 13) [148599] RE: FS-- DSW20, DSW40 SOLD!
     by mjfitz@uswest.net
 14) [148600] amps
     by "carl seyersdahl" <carlseye@tampabay.rr.com>
 15) [148601] FT7 mod
     by "hivolts" <hivolts@usintouch.com>
 16) [148602] Re: /QRP vs /Q
     by Bob Nielsen <nielsen@oz.net>
 17) [148603] RE: 50 Amp shunts
     by Pete Burbank <plburbank@earthlink.net>
 18) [148604] Summer FOX Hunt
     by "Doc K0EVZ" <dock0evz@earthlink.net>
 19) [148605] Re: /QRP vs /Q

by "Thomas Kuehl" <ac7a@earthlink.net>
20) [148606] Re: /QRP vs /Q
by Richard Clem <clem.law@usa.net>
21) [148607] Anybody hear my Rock-Mite RTTY signals on 20 today?
by "Bill, N4QA" <n4qa@hotmail.com>
22) [148608] Contest
by "Jerry Ford" <benlightnd13@mchsi.com>
23) [148609] RE: 50 Amp shunts
by Tim Groat <tcgroat@earthlink.net>
24) [148610] Re: Digital scopes
by "Leon Heller" <leon_heller@hotmail.com>
25) [148611] AT in PA @ 13:30 UTC
by "Ron Polityka" <wb3aal@fast.net>
26) [148612] Re: AT in PA @ 13:30 UTC
by "Ron Polityka" <wb3aal@fast.net>
27) [148613] Re: /QRP vs /Q
by Bruce Muscolino <w6toy@erols.com>
28) [148614] Subject: [148586] RE: which power supply is the right one for me?
by "stan mcintosh" <mcintosh@triad.rr.com>
29) [148615] Hw 8 Fs
by "Larry" <w5wlb@gbronline.com>
30) [148616] Pocket PC Logger Software
by Herb <hspivey@netdoor.com>
31) [148617] Re: /QRP vs /Q
by "Bob Schreibmaier" <k3ph@ptd.net>
32) [148618] Re: /QRP vs /Q
by "Charles Mabbott" <aa8vs@msn.com>
33) [148619] Dentron Jr. Monitor
by Bruce Rattray <rattray@gpfn.sk.ca>
34) [148620] <fs> Shack cleaning
by "Mike Maiorana" <mikemo@attglobal.net>
35) [148621] RE: /QRP vs /Q
by Leland Berman <N3LJB@comcast.net>
36) [148622] Repeat: Atlanticon Sniffer Hunt (long)
by "Joe Everhart" <n2cx@voicenet.com>
37) [148623] ArkieCon
by "Don Foster" <k5kw@geotec.net>
38) [148624] Behringer MX602A mixer/equalizer
by Alex <kr1st@amsat.org>
39) [148625] Replacement component
by Vince Santis <vsantis@earthlink.net>
40) [148626] QRP BBQ/DSW-II
by W2AGN <w2agn@w2agn.net>
41) [148627] RE: 50 Amp shunts
by "AI2Q" <ai2q@adelphia.net>
42) [148628] More high-current metering
by "AI2Q" <ai2q@adelphia.net>
43) [148629]

    by Wayne Rogers <w5kdj@juno.com>
 44) [148630] Question: April QST Programming Article
    by "William Phinizy" <k6whp@verizon.net>

Date: Sat, 05 Apr 2003 12:23:05 -0500
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>,
        GQRP List <GQRP@yahoogroups.com>
Cc: prosolar@sssnet.com, Mike Czuhajewski <wa8mcq@comcast.net>
Subject: [148587] New edition of HW-8 Handbook to debut at Dayton
Message-ID: <001a01c2fb98$04fd38e0$6401a8c0@gambrl01.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Somewhere back in the 80's Fred Bonavita, K5QLF (W5QJM at the time) put out the very first Hotwater Handbook, devoted to the Heath QRP radios. Mike Bryce, WB8VGE, later took it over and has been doing it ever since. During one of the revisions Mike changed the name to the HW-8 Handbook; the problem with using the word Hotwater was that some people saw the name and thought the book was devoted to the entire HW series of Heath rigs, commonly referred to as the HotWater 12, HotWater 32, etc.

It's been a while since the last revision, but now he has another one in the works and it will be available in May, at Dayton. Since he is not on this list, he asked me to post this announcement for him.

PS--I recently discovered that Mike now has a second web site in addition to the one for his solar energy business. It's called The Heathkit Shop (URL is at the end of this post), and contains info on some Heath ham radio products, with more to follow. (It already has a good article on working on the HW-8.) I'd recommend checking back on it every now and then since I expect it to grow quite a bit as time allows.

Here's the WB8VGE announcement:

The second edition of the HW-8 Handbook will be ready by Dayton 2003, and is a complete rewrite of the first edition. It's 104 pages long and spiral bound so it will lay flat on the table. There are lots of photos and schematics in it. I've included a LOT more stuff for the HW-7, and a new DUAL RIT mod for the HW-8. There are complete PC board patterns and part overlays for the HW-7, HW-8 and HW-9.

I've also included all the factory service updates from Heath.
There are full length articles in it about troubleshooting. There are some new mods and I kept the best of the old ones. Spread throughout the book

you'll find "Heathtips."

The book is printed on 60# ultra white paper, with embossed cover. It looks great!

And the best part? It's only $15 plus shipping, which is $4 for priority mail in the US.

The files are at the printer as I speak. The drop dead date is April 15; the books will be ready by then.

You can order your book now, using MasterCard or Visa. Your card will NOT be charged until the book ships.

Order toll free at 1 888 476 5279.

Mike Bryce WB8VGE
SunLight Energy Systems

e-mail prosolar@sssnet.com
http://www.seslogic.com
http://www.theheathkitshop.com
955 Manchester Ave SW
North Lawrence, OH 44666 USA
(make check/money order out to SunLight Energy, not to the Heathkit Shop, which is part of SunLight Energy Systems)

"Electricity at the speed of light"
---
73 and queue our pea DE WA8MCQ

Date: Sat, 05 Apr 2003 12:35:37 -0500
From: Lenny Wintfeld <w2bvh@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [148588] Rotary Inverter (Dynamotor) Hookup info needed
Message-ID: <3E8F13E9.1000709@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT

Hi

I tried this question on the glowbugs list without much success, so I'm trying here on QRP-L next.

Does anyone have hookup info on the following Pioneer Instrument
(Pioneer-Eclipse division of Bendix Aviation) Inverter (Dynamotor):

Model Nr. 12116-2-A
Stock Nr. R88-1-4150
Order Nr. NOA(S) 4660

Input 28V. 4.5 A
Output 115V .45A 400cps

It has a typical military style round shell connector with 7 pins.

Thanks in advance.....

Lenny W2BVH

Date: Sat, 05 Apr 2003 12:27:44 -0600
From: Dave Hottell <hottell@gulftel.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148589] Shielded twin lead
Message-ID: <3.0.6.32.20030405122744.0088d1a0@pop.gulftel.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Gangue,

Bought some old shielded twin lead at a tailgater and been checking it out.
 Wondering if anyone can shed some additional info on what I'm seeing.

Using an Autek VA1 it shows a VF of about 0.66, about what I expected.
Loss at 7 MHz is about 0.25 dB/100'.

But as I go up in freq the loss rises substantially - to about 1.5 dB/100'
at 27 MHz. Calculations indicate the loss should rise to about 0.5
dB/100'. So this line is not following the expected pattern. Water in
there somewhere?

Also, if anyone has ever used this stuff, do you need to connect the shield
to something when hooking it up? The two conductors take care of the
needed electrical connections, so what happens to the shield? Left
floating, tied to the chassis at the xmit end, or something else?

And a question for the knowledgable folks on here, how can you get such low

loss out of *shielded* twin lead? We are always told to keep twin lead away from metal when running it, yet here we have twin lead wrapped in a shield that has as low of loss as if it were in the open air. How can that be? Don't run it next to metal, but it is OK to wrap it in aluminum foil?

BTW, the price was right for testing and learning - $1 for a 67' piece.

73,
Dave
ab9ca

Date: Tue, 01 Apr 2003 02:11:36 -0500
From: Alex <kr1st@amsat.org>
To: w0jrm@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148590] Re: QRP Net Directory
Message-ID: <3E893BA8.97831E7B@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for the directory, Rob. I thought that there used to be a 40 meter SSB QRP net on Tuesdays, but I haven't seen any announcements anymore it prolly went belly up. That's really, too bad. Now with my new antenna I probably would actually make it in.

Thanks again and 73,
--Alex KR1ST

Rob Matherly wrote:
>
> Finally got around to starting that QRP Net Directory. You can visit it
> at http://www.qsl.net/w0jrm/qrpnets.html.
>
> If you have any comments, please let me know!
>
> I'm also looking for more nets to add... please e-mail me any nets you
> know of.
>
> 72/73/oo
> Rob, w0jrm
> http://members.iowasocean.com/jimrob

Date: Sat, 05 Apr 2003 11:03:13 -0800 (PST)
From: Nelson Winter <thenels@go.com>
To: Michael Bower <bowerm@ix.netcom.com>,
        Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148591] Re: Rock Mite Question
Message-ID: <1285166.1049569393477.JavaMail.thenels@gomailjtp01>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

If either the dit or dah is grounded on power up, the keyer works in straight key mode with the opposing input. In other words, if you ground the dit on power-up, then you can use the dah as a straight key or vise- versa.

-----Original Message-----
From: "Michael Bower"<bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion"<qrp-l@Lehigh.EDU>
Date: Sat Apr 05 04:50:30 PST 2003
Subject: Re: Rock Mite Question

>Isn't there a SK option on the keyer? Switch to that you can do what you
>need to do.
>
>On Fri, 04 Apr 2003 20:05:34 -0500, Jim Campbell <jim-c@charter.net> wrote:
>
>> I built a Rock Mite a few weeks ago. My antenna consists of my gutters
>> and downspouts. Needless to say, the impedance the Rock Mite sees is
>> nowhere near 50 ohms. I just today completed the assembly of an LDG Z11
>> antenna tuner. The Z11 works just fine for my HW-8, but in order for the
>> Z11 to tune, I need to be able to key the Rock Mite continuously for at
>> least 4 seconds. I tried slowing down the keyer rate as slow as
>> possible, but it still didn't stay keyed long enough for the Z11 to tune.
>>
>> Does anyone know of a way to key the Rock Mite continuously for something
>> like 4 seconds?
>>
>> Thanks es 72,
>>
>> Jim
>> W4BQP
>>
>>
>>
>
>
>
>

Less = More
http://www.qsl.net/wb6dwd/
RM-40/30/20

_____
GO.com Mail
Get Your Free, Private E-mail at http://mail.go.com

Date: Sat, 05 Apr 2003 15:32:10 -0500
From: Jerry Lofstead <w3cde@bellsouth.net>
To: ai2q@adelphia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [148592] Re: QRP rig pix updates
Message-ID: <3E8F3D4A.9879D64@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Boy! That sure looks like a Heath SB220 on your left side in
the shack picture 8-)..
I guess if you run it on 110 VAC, it's QRP 8-).

Nice little rig though.

Jerry
W3CDE
Atlanta, GA

AI2Q wrote:
>
> Hi QRP-L listers:
>
> I've updated my page to show photos of the 20-M ssb/cw rig built here last
> year, as well as all the schematics and photos to date of the 75-M rig
> presently under construction.
>
> http://users.adelphia.net/~alexmm/ai2q.htm
>
> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.

Date: Sat, 5 Apr 2003 15:38:13 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
        Low Power Group <qrp-l@LeHigh.EDU>
Subject: [148593] Dentron Jr. Monitor
Message-ID: <Pine.LNX.4.33.0304051535320.19571-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The Moose Jaw Amateur Radio club had its annual flea market today...one of
the "fleas" I brought home was the DENTRON jR. MONITOR....but I need a
manual please or copy or maybe someone could e-mail me the specs
please?...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
            - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Sat, 05 Apr 2003 16:45:57 -0500
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU
Subject: [148594] Digital scopes
Message-ID: <3E8F0845.18843.59ACB8@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

I need help with understanding how bandwidth on a digital scope is calculated.
Someone on ebay is selling a Protek scopemeter (probably a reverse engineered
Fluke) for a very reasonable price ($399). The sampling rate is 50Ms/S. I once
read
about a fellow named Nyquist who would probably claim that this is the equivalent
of
a 25Mhz bandwidth on an analog scope. I have seen other digital scope specs that
would only claim an "analog equivalent" bandwidth of 5-10 Mhz for this sampling
rate. What's going on?

Now if I could only find $399 in discretionary funds.

Henry

Date: Sat, 5 Apr 2003 16:56:01 -0500
From: "Tom" <thom2@worldnet.att.net>
To: <ac7a@earthlink.net>,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [148595] Re: /QRP vs /Q
Message-ID: <002e01c2fbbe$2817c680$11d4580c@1xjhu>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

  I was surprised to have read Thomas' post about someone getting a notice from the FCC because he use "/qrp", although I don't doubt it for a minute. Its a bit troubling (at least to me) that this is what they see as important. Thomas' point is well taken about the possibility of confusion with other uses of "/", but IMHO the FCC seems to have been nit picking a bit here.

Tom
WB2QDG/qrp

Enjoy the March Madness

and

Pray for peace
-----Original Message-----
From: Thomas Kuehl <ac7a@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Saturday, April 05, 2003 12:13 PM
Subject: Re: /QRP vs /Q

>Max,
>
>It is my understanding that the FCC does not authorize us to sign /QRP, or
>/Q for that matter. If I am not mistaken, someone on the list once
mentioned
>receiving an FCC pink ticket for signing with their call/QRP. Because of my
>understanding of the rules, I never sign as AC7A/QRP. I sign; de AC7A QRP,

>if I want it known I am running low power.
>
>The newer "suffixes" you mention, such as PM and BM, are assigned to
>Indonesia and China, respectively. Using them with a slash might be
>interpreted as you are operating with your call, within that country.
>However, if you were permitted to operate with your home call in the those
>countries, the correct format is likely PM/call and BM/call. I think the
>only allowed US slash/suffixes are /M and /MM, and also a number associated
>with a US call region; AC7A/6. There may be one for aeronautical mobile as
>well.
>
>My understanding is we can legally use an alphanumeric suffix starting with
>the number 1 (maybe the number 2 as well?), such as AC7A/1Q. You can self
>assign such suffixes. I have worked stations that have used similar
suffixes
>to commemorate a special event.
>
>I am stating this all from memory, so I may be totally off base. Someone
can
>jump in and tell me I am full of baloney. It is late and I don't have the
>rules in front of me.
>
>Regards, Thomas - AC7A/1QRP (Tucson)
>
>----- Original Message -----
>From: "Max Moon" <maxmoon@umn.edu>
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Sent: Friday, April 04, 2003 5:46 PM
>Subject: /QRP vs /Q
>
>
>> Hello,
>>
>> I was thinking (uhh-oh, I hear some of you say ;-) and found myself
>> wondering, Why do we sign off, for example, K0MAX/QRP when K0MAX/Q would
>be
>> quicker & could be just as clear?
>>
>> I understand how some conventions came into being, especially old ones
>like
>> K0MAX/M (mobile) or K0MAX/P (portable) or K0MAX/MM (maritime mobile).
Then
>> there are the newer suffixes like K0MAX/PM (pedestrian mobile) or
K0MAX/BM
>> (yes, that's what I thought at first--but then I learned it meant
"bicycle
>> mobile"). Apparently, we have an amount of latitude under the regs in
>using

>> suffixes--why don't we all start using /Q instead of the longer /QRP?
>>
>> Using /Q would be quicker, easier, & once we did it for a while so
>everybody
>> understood, it would be obvious to everybody. Besides, it has a certain
>> elegance, eh? What do you folks think?
>>
>> 72s,
>> Max k0max
>>
>>
>
>

Date: Sat, 5 Apr 2003 16:55:19 -0500
From: "AI2Q" <ai2q@adelphia.net>
To: <jerrylofstead@bellsouth.net>
Cc: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [148596] RE: QRP rig pix updates
Message-ID: <000001c2fbbe$0e104320$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yup, and it operates from a dedicated 220-V line Jerry! The box in the foreground is a homebrew pair of 4-440A tetrodes for 160-M, and there's a homebrew pair of triodes for 80-40-20-15 that you can't see. On the other side of the room there's a homemade pair of 813s for SSTV.

Hee hee.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.

-----Original Message-----
From: Jerry Lofstead [mailto:w3cde@bellsouth.net]
Sent: Saturday, April 05, 2003 3:32 PM
To: ai2q@adelphia.net
Cc: Low Power Amateur Radio Discussion
Subject: Re: QRP rig pix updates

Boy! That sure looks like a Heath SB220 on your left side in
the shack picture 8-)..
I guess if you run it on 110 VAC, it's QRP 8-).

Nice little rig though.

Jerry
W3CDE
Atlanta, GA

AI2Q wrote:
>
> Hi QRP-L listers:
>
> I've updated my page to show photos of the 20-M ssb/cw rig built here last
> year, as well as all the schematics and photos to date of the 75-M rig
> presently under construction.
>
> http://users.adelphia.net/~alexmm/ai2q.htm
>
> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.

Date: Sat, 5 Apr 2003 18:22:34 -0500
From: "KB0VCC" <kb0vcc@adelphia.net>
To: <qrp-l@Lehigh.EDU>
Subject: [148597] Re: /QRP vs /Q
Message-ID: <000301c2fbca$3df92960$6401a8c0@dalenotebook>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I always wondered what I was supposed to sign with
when /M and /1 and /QRP.   I usually just sign /M .

72/73,
Dale

==
 Dale Anderson, KB0VCC   In the Mt Washington Valley
 QRP-L #91 / QRP-NE #600   Conway, New Hampshire
 ARS #234 / FISTS #3172   Grid Sq: FN43kx
 CQC #251 / QRP-ARCI #11446   http://www.qsl.net/kb0vcc

Date: Sat, 05 Apr 2003 17:20:23 -0600
From: "Merton Nellis" <mertnellis@msn.com>
To: ai2q@adelphia.net, qrp-l@Lehigh.EDU
Subject: [148598] RE: 50 Amp shunts
Message-ID: <BAY4-F26BGTuAyHsjCG0000b34b@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Pete and all,
I guess I am a very simple and naive sort of person but I have a hard time seeing that connecting any meter that draws less than 1MA from a 50 Amp, 50 MV shunt (.001 ohms shunt)would cause much error. Of course, the meter has to have the correct resistance or be padded up so that it draws full scale current when connected across the shunt but 1Ma draw out of 50 amps is a pretty small error on my calculator.
73/72 Mert W0UFO   MNQRP
  w0ufo@arrl.net
>From: "AI2Q" <ai2q@adelphia.net>
>Reply-To: ai2q@adelphia.net
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: RE: 50 Amp shunts
>Date: Sat, 5 Apr 2003 09:11:25 -0500
>
>No way Pete. As soon as you place a meter with unknown internal resistance
>across the shunt, you're sunk. You'll have no idea of how much current is
>flowing through the movement, and how much is being shunted around it. Your
>readings will not be accurate.
>
>I'll reiterate that the way to measure is to simply use a low value
>resistor
>of totally UNCRITICAL value, then do the simple two minute's worth of Ohm's
>Law calcs, and calibrate your "voltmeter" (as I described last week). Then
>you'll have a highly accurate ammeter and won't have to contend with errors
>due to connection resistance as well.
>
>Yes, you'll have to put a new scale on the meter, or a small placard just
>below it to remind you of its full-scale ammeter reading. So, as an
>example,
>if I happened to use a 100 uA movement, and it's meant to read 50 Amperes
>FS, I know that whatever numeric reading I see on the scale will be divided
>by two (i.e. 50 shows 25 A).
>
>Of course, you can carefully disassemble the meter movement (if it's not a

>sealed meter), paint the scale nicely, insert your callsign while you're at
>it, and wind up with a first-rate job!
>
>GL Pete, and have fun.
>
>Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.
>
>

_____
Add photos to your e-mail with MSN 8. Get 2 months FREE*.
http://join.msn.com/?page=features/featuredemail

Date: Sat, 05 Apr 2003 18:20:45 -0600
From: mjfitz@uswest.net
To: qrp-l@Lehigh.EDU
Subject: [148599] RE: FS-- DSW20, DSW40 SOLD!
Message-ID: <3E8F72DD.AAA36C6A@uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rigs are sold. Thanks for your interest.

  Mike N0MF

Date: Sat, 5 Apr 2003 20:17:36 -0500
From: "carl seyersdahl" <carlseye@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>,
        <Amps@contesting.com>
Subject: [148600] amps
Message-ID: <00a901c2fbda$4f00f3e0$4a2e2041@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

 Some time back I bought an amp kit from the hfpack group, and then I
realized I may never get to build it. Someone on hfpack wanted one but when
I sent a msg. to the group I was given to understand that I shouldn't post
things that way. Well, needless to say I still have the kit, so if anyone

knows anyone on the hfpack group , or anyone else for that matter, who might want the kit please let me know or pass this on. the kit is a solid state unit, 35 watts out, I think. all the particulars are on the hfpack website. Price is 115.00 , shipped .!!!!!
  carl / kz5ca

Date: Sat, 5 Apr 2003 17:29:22 -0800
From: "hivolts" <hivolts@usintouch.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148601] FT7 mod
Message-ID: <003301c2fbdb$f3f87070$73811c0c@john>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings, I am looking for the audio filter mod on the FT7 that came out in the April 1992 issue of QQ, I will gladly cover the cost whatever they may be...thanks...John ...KF7OM

Date: Sat, 5 Apr 2003 17:58:09 -0800
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148602] Re: /QRP vs /Q
Message-ID: <20030406015809.GA1172@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

97.119 Station Identification

(c) One or more indicators may be included with the call sign. Each indicator must be separated from the call sign by the slant mark (/) or by any suitable word that denotes the slant mark. If an indicator is self-assigned, it must be included before, after. or both before and after the call sign. No self-assigned indicator may conflict with any other indicator specified by the FCC Rules or with any prefix assigned to another country.

IANAL, but since no country is assigned the QAA-QZZ block, I read this
as permitting /qrp. However, /m for mobile would not be allowed (since
MAA-MZZ, therefore a single M is assigned to the UK). Likewise for
/mm, but /p would probably be o.k., since no country has the entire
PAA-PZZ assignment. In fact, many countries require /p if operating
from other than the location specified in your license.

73,
Bob, N7XY

--
Bob Nielsen, N7XY   n7xy@n7xy.net
Bainbridge Island, WA   http://www.n7xy.net
IOTA NA-065, USI WA-028S

On Sat, Apr 05, 2003 at 04:56:01PM -0500, Tom wrote:
> Hi Gang,
>
>   I was surprised to have read Thomas' post about someone getting a notice
> from the FCC because he use "/qrp", although I don't doubt it for a minute.
> Its a bit troubling (at least to me) that this is what they see as
> important. Thomas' point is well taken about the possibility of confusion
> with other uses of "/", but IMHO the FCC seems to have been nit picking a
> bit here.
>
> Tom
> WB2QDG/qrp
>
>
> Enjoy the March Madness
>
> and
>
> Pray for peace
> -----Original Message-----
> From: Thomas Kuehl <ac7a@earthlink.net>
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
> Date: Saturday, April 05, 2003 12:13 PM
> Subject: Re: /QRP vs /Q
>
>
> >Max,
> >
> >It is my understanding that the FCC does not authorize us to sign /QRP, or
> >/Q for that matter. If I am not mistaken, someone on the list once
> mentioned

> >receiving an FCC pink ticket for signing with their call/QRP. Because of my
> >understanding of the rules, I never sign as AC7A/QRP. I sign; de AC7A QRP,
> >if I want it known I am running low power.
> >
> >The newer "suffixes" you mention, such as PM and BM, are assigned to
> >Indonesia and China, respectively. Using them with a slash might be
> >interpreted as you are operating with your call, within that country.
> >However, if you were permitted to operate with your home call in the those
> >countries, the correct format is likely PM/call and BM/call. I think the
> >only allowed US slash/suffixes are /M and /MM, and also a number associated
> >with a US call region; AC7A/6. There may be one for aeronautical mobile as
> >well.
> >
> >My understanding is we can legally use an alphanumeric suffix starting with
> >the number 1 (maybe the number 2 as well?), such as AC7A/1Q. You can self
> >assign such suffixes. I have worked stations that have used similar
> suffixes
> >to commemorate a special event.
> >
> >I am stating this all from memory, so I may be totally off base. Someone
> can
> >jump in and tell me I am full of baloney. It is late and I don't have the
> >rules in front of me.
> >
> >Regards, Thomas - AC7A/1QRP (Tucson)
> >
> >----- Original Message -----
> >From: "Max Moon" <maxmoon@umn.edu>
> >To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> >Sent: Friday, April 04, 2003 5:46 PM
> >Subject: /QRP vs /Q
> >
> >
> >> Hello,
> >>
> >> I was thinking (uhh-oh, I hear some of you say ;-) and found myself
> >> wondering, Why do we sign off, for example, K0MAX/QRP when K0MAX/Q would
> >be
> >> quicker & could be just as clear?
> >>
> >> I understand how some conventions came into being, especially old ones
> >like
> >> K0MAX/M (mobile) or K0MAX/P (portable) or K0MAX/MM (maritime mobile).
> Then
> >> there are the newer suffixes like K0MAX/PM (pedestrian mobile) or
> K0MAX/BM
> >> (yes, that's what I thought at first--but then I learned it meant
> "bicycle

> >> mobile"). Apparently, we have an amount of latitude under the regs in
> >using
> >> suffixes--why don't we all start using /Q instead of the longer /QRP?
> >>
> >> Using /Q would be quicker, easier, & once we did it for a while so
> >everybody
> >> understood, it would be obvious to everybody. Besides, it has a certain
> >> elegance, eh? What do you folks think?
> >>
> >> 72s,
> >> Max k0max
> >>
> >>
> > >
> > >
>

Date: Sat, 05 Apr 2003 20:59:58 -0500
From: Pete Burbank <plburbank@earthlink.net>
To: mertnellis@msn.com,
        "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [148603] RE: 50 Amp shunts
Message-ID: <5.2.0.9.0.20030405204625.00a4a920@Earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Mert,
You have it right. The error introduced by a 50 uA meter would be even
less. The error from contact drop is not in the
equation as the meter connections are inside the 1/4 inch outside lug
connections.
Also I wonder what 50 amp resistor Alex would recommend. I think it's
called a shunt...:-)
You are not simple by any means, just a gut level electronics whiz.
Tnx for the post es vy 73
Pete NV4V

At 06:20 PM 4/5/2003, Merton Nellis wrote:
>Hi Pete and all,
>I guess I am a very simple and naive sort of person but I have a hard time
>seeing that connecting any meter that draws less than 1MA from a 50 Amp,
>50 MV shunt (.001 ohms shunt)would cause much error. Of course, the meter
>has to have the correct resistance or be padded up so that it draws full
>scale current when connected across the shunt but 1Ma draw out of 50 amps
>is a pretty small error on my calculator.
>73/72 Mert W0UFO   MNQRP

> w0ufo@arrl.net
>>From: "AI2Q" <ai2q@adelphia.net>
>>Reply-To: ai2q@adelphia.net
>>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>>Subject: RE: 50 Amp shunts
>>Date: Sat, 5 Apr 2003 09:11:25 -0500
>>
>>No way Pete. As soon as you place a meter with unknown internal resistance
>>across the shunt, you're sunk. You'll have no idea of how much current is
>>flowing through the movement, and how much is being shunted around it. Your
>>readings will not be accurate.
>>
>>I'll reiterate that the way to measure is to simply use a low value resistor
>>of totally UNCRITICAL value, then do the simple two minute's worth of Ohm's
>>Law calcs, and calibrate your "voltmeter" (as I described last week). Then
>>you'll have a highly accurate ammeter and won't have to contend with errors
>>due to connection resistance as well.
>>
>>Yes, you'll have to put a new scale on the meter, or a small placard just
>>below it to remind you of its full-scale ammeter reading. So, as an example,
>>if I happened to use a 100 uA movement, and it's meant to read 50 Amperes
>>FS, I know that whatever numeric reading I see on the scale will be divided
>>by two (i.e. 50 shows 25 A).
>>
>>Of course, you can carefully disassemble the meter movement (if it's not a
>>sealed meter), paint the scale nicely, insert your callsign while you're at
>>it, and wind up with a first-rate job!
>>
>>GL Pete, and have fun.
>>
>>Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.
>
>
>____
>Add photos to your e-mail with MSN 8. Get 2 months FREE*.
>http://join.msn.com/?page=features/featuredemail

Date: Sat, 5 Apr 2003 20:21:47 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [148604] Summer FOX Hunt
Message-ID: <41200340622147102@earthlink.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Several have wondered whether there will be a Summer FOX Hunt this year. The short answer is YES, and plans are underway right now.

The Summer Hunt will be on 20 Metres. The season will run 10 Sundays, with a BYE the week of July 4th national holiday. It will begin on Sunday, May 26. Watch for more details soon.

Also...soon there will be a call for volunteers to serve as FOXes during this season. Thanks, everyone!

73,
--Doc/K0EVZ
for the Summer FOX Hunt

Date: Sat, 5 Apr 2003 20:19:56 -0700
From: "Thomas Kuehl" <ac7a@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [148605] Re: /QRP vs /Q
Message-ID: <000d01c2fbeb$66399010$0a0110ac@texas6oef4glwm>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy,

Bob beat me to the punch. I had just reviewed 97.119 and had planned to post it.

Reading 97.119, what I had said previously about the /suffix conflicting another countries prefix is correct. And unless the Q signals (also refereed to as service abbreviations) are indicators specified by the FCC rules, then it would appear to be okay to use your call/QRP. I could not find any reference to Q signals in part 97 of the rules and regulations.

Maybe my brain is playing tricks on me, but I am certain I once read about someone being ticketed for using their call/QRP. It was enough to convince me not to use my call/QRP ever again.

Regards, Thomas - AC7A (Tucson)

----- Original Message -----
From: "Bob Nielsen" <nielsen@oz.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, April 05, 2003 6:58 PM
Subject: Re: /QRP vs /Q

> 97.119 Station Identification
>
> (c) One or more indicators may be included with the call sign. Each
> indicator must be separated from the call sign by the slant mark (/) or
> by any suitable word that denotes the slant mark. If an indicator is
> self-assigned, it must be included before, after. or both before and
> after the call sign. No self-assigned indicator may conflict with any
> other indicator specified by the FCC Rules or with any prefix assigned
> to another country.
>
> ---
>
> IANAL, but since no country is assigned the QAA-QZZ block, I read this
> as permitting /qrp. However, /m for mobile would not be allowed (since
> MAA-MZZ, therefore a single M is assigned to the UK). Likewise for
> /mm, but /p would probably be o.k., since no country has the entire
> PAA-PZZ assignment. In fact, many countries require /p if operating
> from other than the location specified in your license.
>
> 73,
> Bob, N7XY
>
> --
> Bob Nielsen, N7XY n7xy@n7xy.net
> Bainbridge Island, WA http://www.n7xy.net
> IOTA NA-065, USI WA-028S

Date: Sat, 05 Apr 2003 21:19:35 -0600

From: Richard Clem <clem.law@usa.net>
To: <qrp-l@lehigh.edu>
Cc: <ac7a@earthlink.net>
Subject: [148606] Re: /QRP vs /Q
Message-ID: <221HDFDTj5376S01.1049599175@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

ac7a@earthlink.net wrote:

It is my understanding that the FCC does not authorize us to sign /QRP, o=
r
/Q for that matter. If I am not mistaken, someone on the list once mentio=
ned
receiving an FCC pink ticket for signing with their call/QRP.

Actually, the rules specifically permit it, basically as long as you do n=
ot do
so in such a fashion as to make it sound like you are DX. Here's the rul=
e:

97.119 (c):

One or more indicators may be included with the call sign. Each indicator=
 must
be separated from the call sign by the slant mark (/) or by any suitable =
word
that denotes the slant mark. If an indicator is self-assigned, it must be=

included before, after, or both before and after, the call sign. No
self-assigned indicator may conflict with any other indicator specified b=
y the
FCC Rules or with any prefix assigned to another country. =

On the other hand, I usually don't do so, except occasionally when I thin=
k
that signing /QRP might elicit some sympathy. It usually doesn't, so I
usually don't do so!

73,
Rick W0IS/QRP

Date: Sat, 05 Apr 2003 22:20:39 -0500
From: "Bill, N4QA" <n4qa@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [148607] Anybody hear my Rock-Mite RTTY signals on 20 today?
Message-ID: <BAY1-F354ltFlmmlQ080000fbec@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Well, I finally downloaded a suitable RTTY program... Mako's(JE3HHT)
'MMTTY'. It has FSK output and T/R control output via a PC's COM port. So,
all I had to build was a simple two-channel RS-232C-to-O/C output level
translator and make three connections to the RM-20...hooked up to the
cathodes of D5(for shift) and D7(for rig T/R)...and, ground, of course. Am
running 250 mW out to the LW. Used the DSW-20 for monitoring RTTY-Rocky's
sigs. Doesn't sound too bad...did notice a slight bit of drift...
Currently running stock-rock shift of ~700 Hz...don't want to mod the rig
any more than is absolutely necessary. Haven't made any RTTY contacts with
this lashup as yet but, then, not too many RTTY stations were hanging around
14058.8/14059.5 today :)

DSW-(II)-X0 RTTY is next...not sure when I'll get 'round to that one...but I
DID manage to replace the defective slave-cylinder for the clutch on the '84
Mazda B2000 Sundowner today...the XYL is so proud :)
Now if I can only get the chainsaw going again...it's always something!

73.
Bill, N4QA
http://www.qsl.net/n4qa/

_____
MSN 8 with e-mail virus protection service: 2 months FREE*
http://join.msn.com/?page=features/virus

Date: Sat, 5 Apr 2003 21:34:13 -0600

From: "Jerry Ford" <benlightnd13@mchsi.com>
To: "qrp-l" <qrp-l@lehigh.edu>, "FPigs" <fpqrp-l@mpna.com>
Subject: [148608] Contest
Message-ID: <014401c2fbed$65de8ce0$f374da0c@mchsi.com>

Well, I guess it's going to be another long weekend.
I've been monitoring the RTTY test and sent out a couple of e-mails
asking folks to QSY and leave us some room.

I got a response telling me that this particular contest is an EA test
and the freq. range for it is 7035 to 7045. I guess the EA's can't
work outside of that. So, gives me a good excuse to dive back into
the MP + and get it on the air.
Everyone have a super weekend:

72 OO Jerry N0JRN
FP # 546, ARS # 923, ARCI # 11049, ARRL,
Springfield, Mo. http://home.mchsi.com/~n0jrn/

Date: Sat, 05 Apr 2003 21:26:21 -0700
From: Tim Groat <tcgroat@earthlink.net>
To: qrp-l@lehigh.edu
Subject: [148609] RE: 50 Amp shunts
Message-ID: <5.1.1.6.2.20030405210529.00a123f0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

50mV at 50A works out to be a milliohm. Even with as low as one ohm meter
movement in parallel, there is insignificant loading error. With any normal
meter movement, the meter's accuracy far outweighs the influence of loading
on the shunt.

What **is** important is to hook the shunt up correctly. They have two big
terminals for carrying the load current, and two small ones for connecting
the meter. The only wires going to the meter are to those two small
terminals, and the only wires connected to the small terminals are the ones
going to the meter. Even a small ground loop current can create a
significant voltage drop when the signal is 0-50mV.

72,

--Tim (KR0U)

>"AI2Q" <ai2q@adelphia.net>:

>
>No way Pete. As soon as you place a meter with unknown internal resistance
>across the shunt, you're sunk. You'll have no idea of how much current is
>flowing through the movement, and how much is being shunted around it.
>Your readings will not be accurate.

Date: Sun, 6 Apr 2003 07:23:10 +0100
From: "Leon Heller" <leon_heller@hotmail.com>
To: <henryf@quartz.gly.fsu.edu>,
        "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148610] Re: Digital scopes
Message-ID: <DAV26IKaOSbsShdbRMy00004948@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Saturday, April 05, 2003 10:45 PM
Subject: Digital scopes

> I need help with understanding how bandwidth on a digital scope is
calculated.
> Someone on ebay is selling a Protek scopemeter (probably a reverse
engineered
> Fluke) for a very reasonable price ($399). The sampling rate is 50Ms/S.
I once read
> about a fellow named Nyquist who would probably claim that this is the
equivalent of
> a 25Mhz bandwidth on an analog scope. I have seen other digital scope
specs that
> would only claim an "analog equivalent" bandwidth of 5-10 Mhz for this
sampling
> rate. What's going on?
>
> Now if I could only find $399 in discretionary funds.

Probably because the 25 MHz Nyquist frequency only applies to a sine wave.
If you want to see square waves etc., with harmonic content above Nyquist,
the limit is a lot lower.

Nyquist died a few months ago, BTW.

You'd be better off with a good quality second-hand analogue scope like a Tek.

73, Leon
--
Leon Heller, G1HSM
leon_heller@hotmail.com
http://www.geocities.com/leon_heller

Date: Sun, 6 Apr 2003 06:53:48 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>, ". NJ QRP-L" <njqrp@njqrp.org>
Subject: [148611] AT in PA @ 13:30 UTC
Message-ID: <006901c2fc2a$cea2b1b0$25e65cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

 Well I am ready to head out the door at 11:00 UTC.

I am going to hike north from Route 501 to Round Head look out.

I should be on the air between 13:30 UTC and 14:00 UTC on 7.040 MHz +/- due to QRM. If the QRM is bad due to the RTTY contest I will move to 10.106 MHz. +/- due to QRM. Also check 14.060 and 21.060 MHz around 15:00 UTC.

This will start my 4 year of going out on the Appalachian Trail ever month. So this will be my 37th trip to activate the trail with 300+ QSO from the trail. Actually, I enjoy the hike and the outdoors even if I only make 1 or 2 QSO's. :-)

72 & Good DX
Ron de WB3AAL
wb3aal@fast.net
www.n3epa.org

Date: Sun, 6 Apr 2003 08:40:07 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@lehigh.edu>
Subject: [148612] Re: AT in PA @ 13:30 UTC
Message-ID: <001301c2fc39$a8431820$c7e35cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi,

Hike Cancelled. :-(

 Well I got to the trail and I found the winds gusting around 20 MPH with the temps. in the high 20's. I did a quick test hike and figured that the wind chill is between -4'F and 11'F with branches falling all around.

 I decided at that point it was not safe to head out and operate. Maybe next week if the wx is better.

----- Original Message -----
From: "Ron Polityka" <wb3aal@fast.net>

> Hello,
>
> Well I am ready to head out the door at 11:00 UTC.
>
> I am going to hike north from Route 501 to Round Head look out.
>
> I should be on the air between 13:30 UTC and 14:00 UTC on 7.040 MHz +/- due
> to QRM. If the QRM is bad due to the RTTY contest I will move to 10.106
> MHz. +/- due to QRM. Also check 14.060 and 21.060 MHz around 15:00 UTC.
>
> This will start my 4 year of going out on the Appalachian Trail ever month.
> So this will be my 37th trip to activate the trail with 300+ QSO from the
> trail. Actually, I enjoy the hike and the outdoors even if I only make 1 or
> 2 QSO's. :-)
>
> 72 & Good DX
> Ron de WB3AAL
> wb3aal@fast.net
> www.n3epa.org

Date: Fri, 04 Apr 2003 07:56:42 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: ac7a@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148613] Re: /QRP vs /Q
Message-ID: <3E8D810A.CEBF5080@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Frankly, I cannot see any value to using the suffix /QRP at any time. It simply adds to the QRM. If you are in a contest, it simply slows you down. If you are in a QRP event everyone else already knows you are QRP. As a hobby we have passed the point where this type of advertising is necessary. Just send your call and play with the big boys!

73

Date: Sun, 6 Apr 2003 09:28:13 -0700
From: "stan mcintosh" <mcintosh@triad.rr.com>
To: <qrp-l@lehigh.edu>
Subject: [148614] Subject: [148586] RE: which power supply is the right one for me?
Message-ID: <000701c2fc59$8543d7e0$5a0da318@triad.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Stick with the linear supplies, or at least be very careful where you are going to use them. My MFJ is reasonably well-behaved with my SWL rigs, but it cannot be running when I'm using either my BC-348 or Allied A-2515. I haven't tried it near the R-366. If you have a lower IF receiver, then a switcher can be a nightmare. Now, I wish I'd been more careful when making my purchase!

Or, you can order a small wal-wart, a 7 amp gel-cell, keep the cell on a miniscule trickle-charge, and never worry about power supply noise.

stan
kd4bth

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.463 / Virus Database: 262 - Release Date: 3/17/03

Date: Sun, 6 Apr 2003 08:29:37 -0500
From: "Larry" <w5wlb@gbronline.com>
To: "Qrp-l" <qrp-l@lehigh.EDU>
Subject: [148615] Hw 8 Fs
Message-ID: <000b01c2fc40$926f2820$66570945@yourx6k5fonaok>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Buyer has changed his mind. Have a very nice stock Hw 8 fs which also comes with the "Hw 8 Handbook" which has some 75 mods for this radio. Asking $100 and I will pay shipping.
W5wlb

Date: Sun, 06 Apr 2003 08:51:38 -0500
From: Herb <hspivey@netdoor.com>
To: qrp-l@Lehigh.EDU
Subject: [148616] Pocket PC Logger Software
Message-ID: <5.2.0.9.0.20030406084541.00a1e1c0@mail.netdoor.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I am looking for a simple logging program to use with an Ipaq Pocket PC. I am aware of Mobile Log but this is really more than I need. I only need the basic logging with ADIF exchange with my home logging program.

73,
Herb - K5AIC

Date: Sun, 6 Apr 2003 10:04:07 -0400
From: "Bob Schreibmaier" <k3ph@ptd.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [148617] Re: /QRP vs /Q
Message-ID: <002001c2fc45$64147340$6400a8c0@k3ph>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

> Frankly, I cannot see any value to using the suffix /QRP at any time.
> It simply adds to the QRM. If you are in a contest, it simply slows you
> down. If you are in a QRP event everyone else already knows you are
> QRP. As a hobby we have passed the point where this type of advertising
> is necessary. Just send your call and play with the big boys!

I wholeheartedly agree with Bruce! /QRP does NOT help you get through.
It only wastes your time and that of the operator at the other end.

I once heard someone say, "But, I heard the station come back saying,
/QRP?" so it must have helped me get through. Think again. If you
had been signing your call instead of "/QRP" he wouldn't have needed
to ask for a fill. He would have gotten your call the first time.

72/73,
Bob
K3PH

+--+
| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net |
| Kresgeville, PA 18333 | http://home.ptd.net/~k3ph |
+--+

Date: Sun, 06 Apr 2003 10:45:24 -0400
From: "Charles Mabbott" <aa8vs@msn.com>
To: k3ph@ptd.net, qrp-l@Lehigh.EDU
Subject: [148618] Re: /QRP vs /Q
Message-ID: <BAY4-F41Mb1s7nlT2Nq00020642@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I have found signing /QRP does not return any value. If anything the RST
drops to 229 and your contact suddenly can't hear you. As they have said
already, you've made the contact, anything else is just overhead.

73 oo
Chuck AA8VS

"Whoever said the pen is mightier than the
sword obviously never encountered automatic
weapons."

http://68.43.100.7:81/aa8vs

>From: "Bob Schreibmaier" <k3ph@ptd.net>
>Reply-To: k3ph@ptd.net
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Re: /QRP vs /Q
>Date: Sun, 6 Apr 2003 10:04:07 -0400
>
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>to ask for a fill. He would have gotten your call the first time.
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>72/73,
>Bob
>K3PH
>
>+---+
>| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net |
>| Kresgeville, PA 18333 | http://home.ptd.net/~k3ph |
>+---+
>

____
STOP MORE SPAM with the new MSN 8 and get 2 months FREE*
http://join.msn.com/?page=features/junkmail

Date: Sun, 6 Apr 2003 09:04:49 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
        Low Power Group <qrp-l@LeHigh.EDU>
Subject: [148619] Dentron Jr. Monitor
Message-ID: <Pine.LNX.4.33.0304060903380.4892-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Many thanks to everyone who replied...thanks to Bill, K5ZTY, I now have a manual via e-mail...tnx agn everyone!...what a group!...

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
            A-1 Operator Club - 10/10# 944 - QRP Borg#1 - Whiner#10 -
            - VE5QRP SOC#11 - VE5RC SOC#12 - oo#148 - K2#2032 - COG#15 -
          "QRP! How sweet it is!"   "I am da man wit "DAH" paddle!"

Date: Sun, 6 Apr 2003 11:16:57 -0400
From: "Mike Maiorana" <mikemo@attglobal.net>
To: <qrp-l@lehigh.edu>
Subject: [148620] <fs> Shack cleaning
Message-ID: <002801c2fc4f$907a3820$020a0a0a@MIKEMO3>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Giving the shack a good spring cleaning and have the following for sale. Please reply direct. If you don't like the price, make an offer. I'm not desperate, but I am reasonable. Thanks for reading and sorry for the spam.

Tektronix 465B 100MHz dual trace oscilloscope. Excellent condition. Heavy. $200
Tektronix 2235A portable 100MHz dual trace oscilloscope. Excellent condition. $350
B&K 2050 RF signal generator. $50
Autek QF-1A SSB/CW audio filter. $35
Fluke 1900A counter/timer. 80MHz. $60
Fluke 8600A. 4 1/2 digit bench multimeter, with internal batteries. The

standard. $80
Fluke 8000A. 3 1/2 digit bench multimeter, with internal batteries. $35
Powersonic 4 amp lead acid automatic battery charger. $20
HP 5304A timer/counter. $30
B&K 3010 function generator. $45
Zenith trans-oceanic sw receiver. Early 70's. $150
MFJ 201 grid dip meter. New. $60 ($120 new)
Heathkit HD-1422 noise bridge, for antenna tuning. Like new. $45
Realistic Pro 38 scanner. $35
Icom IC-T2H 2 meter HT, with replaceable NiCd batteries. Like new. $70
Alinco DJ-S11 mini 2 meter HT. Like New. $60
Icom IC-Q7A dual band mini HT. Like new, in box. $80 (new $110)
Kenwood TS-830S. Absolutely mint. With InRad 400 Hz CW filters in both positions. SP230 matching external speaker. User and service manual. $600
Yaesu FT-817, like new in box. No mods. With collins 500Hz CW filter. $575
Autek QF1 audio filter. $15
Sears shortwave/am/fm receiver. Small portable. $15
Vintage Zenith am radio. All tube. Big tabletop model. White plastic case.
Leader 1021 20MHz oscilloscope. Great condition. $50
Hallicrafters S20-R sky champion. Not working. Likely a pwr supply problem. $35
Kenwood TR-7850 2 meter FM mobile with tone board. 50 watts. Good cond. Works great. $100
Shure 444 desk microphone. All metal. $45
D-104 "lollypop" Astatic, with built in preamp. Beautiful chrome. $50.

Mike M. KU4QO

Date: Sun, 06 Apr 2003 11:19:37 -0400
From: Leland Berman <N3LJB@comcast.net>
To: qrp-l@Lehigh.EDU
Subject: [148621] RE: /QRP vs /Q
Message-ID: <000701c2fc4f$efd53ae0$6601a8c0@Leland>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

On quite the contrary, I have gotten many DX to come back to me by just calling "QRP! QRP! QRP!" This was on SSB, and it is a very good tactic to get it. I have found that if you call QRP (if you are QRP) or you are a YL and call "YL! YL! YL!", they will make it a point to come back to the QRP or YL station. Just my view point.

72/73,

Leland Berman, N3LJB
Official Relay Station, EPA Section
10-X 73688
EPA-QRP 109
NJ-QRP 425
ARS 1482
N3LJB@comcast.net

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Charles Mabbott
Sent: Sunday, April 06, 2003 10:45 AM
To: Low Power Amateur Radio Discussion
Subject: Re: /QRP vs /Q

I have found signing /QRP does not return any value. If anything the RST
drops to 229 and your contact suddenly can't hear you. As they have said
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73 oo
Chuck AA8VS

"Whoever said the pen is mightier than the
sword obviously never encountered automatic
weapons."

http://68.43.100.7:81/aa8vs

>From: "Bob Schreibmaier" <k3ph@ptd.net>
>Reply-To: k3ph@ptd.net
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Re: /QRP vs /Q
>Date: Sun, 6 Apr 2003 10:04:07 -0400
>
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>72/73,
>Bob
>K3PH
>
>+--+
>| Bob Schreibmaier K3PH | E-mail: k3ph@ptd.net |
>| Kresgeville, PA 18333 | http://home.ptd.net/~k3ph |
>+--+
>

____
STOP MORE SPAM with the new MSN 8 and get 2 months FREE*
http://join.msn.com/?page=features/junkmail

Date: Sun, 6 Apr 2003 11:21:51 -0400
From: "Joe Everhart" <n2cx@voicenet.com>
To: "njqrp" <njqrp@njqrp.org>
Cc: "qrpl" <qrp-l@lehigh.edu>
Subject: [148622] Repeat: Atlanticon Sniffer Hunt (long)
Message-ID: <000401c2fc50$40b23800$a43067cf@n2cxtoy>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Group,

My computer hiccuped last nite and apparently did not send this.
Excuse me if it you have already seen it.

Joe E.

> Gang,
>

> Here's a belated report of one of the Saturday night activities at
> Atlanticon.
>
> As you probably know, the featured kit for this year's Atlanticon
> was the "Sniffer", a high-sensitivity tuned Field Strength Meter.
> And those of you who have been to past Atlanticons remember
> that we *always* run an event using the current kit. This not
> only lets those who've built them demonstrate their handiwork
> and prowess, but it usually also has a high entertainment factor.
>
> One of the neatest use for an FSM is locating hidden RF sources,
> either intentional or otherwise. In that spirit we ushered the group
> briefly out of the hospitality suite on Saturday night and "slated"
> the place with some clandestine emitters.
>
> These were simple low-power transmitters based on the G-QRP
> transmitter designed by GM3OXX. Since the transmitter design
> was errr adapted from G-QRP that the xtals were supplied by
> NorCal. Built ugly Manhattan style (I'll never win a building contest
> on beauty) and powered by 9-volt alkaline batteries they ran 100-200
> mW, just enough for an indoor event. The antennas were 5 foot wire
> dipoles built with chokes for loading coils that were more or less
> resonant. Each transmitter was keyed by a 555 timer whose
> "on" duration was tailored band by band. The 20 meter rig had
> an on-time of 1 second, the one for 30 meters was 2 seconds in
> duration and the 40 meter job stayed on for about 5 seconds.
>
> Transmitters are tough to hide in a hotel ballroom! We ended up
> taping two of them under long tables and the third to the shaft of
> a flag. Covers hanging over the edge of the tables disguised what
> was underneath. And careful arrangement of the flag hid the rig and
> antenna on the pole from casual view.
>
> The contestants were told that three or four transmitters were hidden
> *somewhere* in the room and that they would be give roughly a
> half hour to locate them. Each was to report the location of each
> emitter and any identifying characteristics (frequency, modulation,
> etc.) to our scribe John Cawthorne KE3ES.
>
> About 10 or 12 hunters proceeded to "Sniff" the premises. Impressively,
> most immediately detected the presence of the "foxes" and proceeded
> to locate them on the basis of signal strength. That's when the fun
> began. They very quickly homed in on the sources but tried to be
> clever about it so that others didn't know exactly what they were
> up to. Several folks also found it takes some skill to actually determine
> just where a hidden transmitter is.
>
> The general location of the table-mounted transmitters was discovered

> pretty quickly, but the exact source remained a mystery. Not thinking
> that we would be devious enough to put a rig *under* a table, folks
> figured that they had to be on top. The QSL vendor table had lots of
> scrutiny and folks figured the xmtr just *had* to be in a box or perhaps
> the vendor's sign on top of the table. The other table xmtr was mounted
> under one with projects for the construction competition. The contestants
> very carefully examined Rich Arland's and Jim Fitton's rigs suspecting
that
> they were the source.
>
> But the flagpole rig made for the most fun! To keep prying eyes away from
> the flagpole we had dragged a large trashcan in front of it. Several
> hunters pawed through the contents and partially pulled the liner out to
> determine the source - there's an incriminating picture of John, W2AGN
> suspicious eyeing the garbage!
>
> As they say on TV ads, "But wait, there's more!" In his inevitable
> deviousness,
> George N2APB had hidden a fourth transmitter on his person. With random
> wire wrapped from leg to leg and snaking around his torso, George prowled
> around "helping" hunters while randomly keying up. It didn't take too
long
> for
> the gang to catch on. At least George doesn't want any more offspring....
>
> In the end most of the contestants found at least two or three of the rigs
> and
> a handful also uncovered the mobile fox. Judging was difficult since four
> folks had found all of the rigs and closely identified the keying
> characteristics.
> We had to assign points values and screen on the basis of exact
> identification.
> All of the contestants did a great job and the final four were
outstanding.
>
> Placement was as follows:
> #1 AB1AV, Bill Noyce
> #2 KF4WAS Hugh Melton
> #3 W2AGN John Sielke
> #4 WJ8B Nancy Feeny
>
> Nancy was also one of the construction contest winners.
>
> Thanks to all for participating and for putting on such a good floor show!
>
> For the NJQRP Club,
>
> Joe E., N2CX

>
>

Date: Sun, 6 Apr 2003 10:53:41 -0500
From: "Don Foster" <k5kw@geotec.net>
To: <qrp-l@Lehigh.EDU>
Subject: [148623] ArkieCon
Message-ID: <000701c2fc54$b2c802e0$3c5258d8@21byq>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

All,

Just got back from ArkieCon in Fort Smith with enough memories (and laughs) to last until next year.

A must see/hear event: Dave Benson, K1SWL, proprietor of Small Wonder Labs, singing to the assembly (yes, singing) about his move to Connecticut. He sang his saga to the tune of The Ballad of Jed Clampett while accompanied by the talented Nick Kennedy, WA5BDU, on the banjo. Hillarious!!!

If "Gentlemen" Jim Cates ever again presents his talk on "43 Years of QRP," go! It's worth the trip. His 43-year collection of gear (he only brought one car-full to exhibit and discuss) is unbelievable. Jim's remarks had the audience rolling in the aisles from laughter.

Entries in the building contest filled an entire table. The Four-State QRP Group won the lion's share of prizes, and one of them was awarded a DSW II 20 contributed by the "crooner" himself, Dave Benson. Those 4-State guys are good! Why haven't I attended one of their meetings?

By the way, Benson said he hopes to be ready to take orders for the DSW II by some time in June. (There will be an announcement here on the reflector when he's ready). The timing of the announcement will be driven by whether he can keep ahead of orders for the Rock Mite. Dave said he's already shipped over 2,000 Rock Mites and the QST article has triggered perhaps as many as 400 additional orders.

QRP's # 1 cheerleader, Doug Hendricks, KI6DS, served as master of ceremonies, assisting ArkieCon coordinator Jay Bomley, W5JAY, in keeping events on time and running smoothly.

Tom Schiller, N6BT, of Force 12 Antennas, spoke about "Team Vertical" and their world-class QRP records. Tom will have you believing in verticals, particularly if you live near salt water.

Don Jackson, AE5K, explained experiments in communicating with micro-watts of power using extremely slow speed CW. He's talking about s-l-o-w, with one side of each exchange taking hours! Fascinating stuff.

Dr. Megacycle, Jim Duffey, KK6MC, and Clif Sikes, N5UW, reminded the audience that QRP is all about FUN, and how to achieve it. Made you want to rush home and get on the air.

The event began with the traditional Friday night dutch-treat dinner at the Rib Eye Steak House in Fort Smith. Believe me, there are a lot of tom turkeys in Arkansas singing soprano now. (Ask one of the locals about that one). ArkieCon ended with judging of the building contest following (burp) a free bar-b-que dinner last night.

My thanks to the Fort Smith QRP Group and Fort Smith Radio Club for staging another memorable event. ArkieCon just gets better each year.

Who's speaking next year, Jay? < grin >

Don, K5KW
in old Fort Gibson, the oldest town in Oklahoma

Date: Sat, 05 Apr 2003 01:05:07 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [148624] Behringer MX602A mixer/equalizer
Message-ID: <3E8E7213.5FFFA0A0@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there,

Is anyone on here using the Behringer MX602A mixer/equalizer?

I just started using a computer noise canceling headset for SSB, which works rather well as long as I use compression on my rig. I'd prefer not to use compression and enhance my SSB audio a little bit. So I figured I'd build me a mic preamp with equalizer. There's a nice design in QST,

but when I started adding up all the costs it would be about the same as the above mentioned mixer-equalizer with about 25% of the functionality.

W2IHY has nice offerings, but rather pricey compared to the Behringer offer. It's not that I'm that cheap, I'm just not that rich. Yes, the W2IHY equipment has a noise gate, but I'm already using a noise canceling microphone and adding such a gate to an existing mixer/equalizer is probably not a big deal. Besides, a noise gate is not really a requirement for me in my situation.

So if anyone who has a MX602A would like to share their experiences, then that would be great. Although I'm 99.99% of the time QRP, I do require equipment to perform well in an environment where the output may 100 Watts.

Thanks and 73,
--Alex KR1ST

Date: Sun, 6 Apr 2003 12:28:40 -0500
From: Vince Santis <vsantis@earthlink.net>
To: "QRP List (E-mail)" <qrp-l@lehigh.edu>
Subject: [148625] Replacement component
Message-ID: <01C2FC38.207805A0.vsantis@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

HI,

I have the following voltage regulator in a circui which I have mechanicly damaged.

Lm78Lo5acz

Can I replace it with

LM78Lo5CLP

Thanks,
Vince Santis,N1VS
Winsted, CT
vsantis@arrl.net
NEQRP # 598
PRP-L # 2372
FISTS# 8053
CC # 1161

K1 #841

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.465 / Virus Database: 263 - Release Date: 3/25/03

Date: Sun, 06 Apr 2003 12:44:35 -0400
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@lehigh.edu
Subject: [148626] QRP BBQ/DSW-II
Message-ID: <3E902133.2077.5CE74CE@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Got the new DSW-II listening on 20M. I hear a few Europeans, but no QRP-L
BBQ. Tried a few CQs, but only got a DK6.

BTW, my measly attempt at a DSW-II page is at http://w2agn.net/dsw.html.
It has a link to the GOOD DSW-II page on Chuck's site.

+-++-++-++-++-+   John L. Sielke
|W||2||A||G||N| http://www.w2agn.net [UPDATED]
+-++-++-++-++-+   Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Sun, 6 Apr 2003 12:51:10 -0400
From: "AI2Q" <ai2q@adelphia.net>
To: "'Merton Nellis'" <mertnellis@msn.com>, <qrp-l@Lehigh.EDU>
Subject: [148627] RE: 50 Amp shunts
Message-ID: <000401c2fc5c$baf4ee80$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mert, you make a good point. I guess what you do is dependent on how
accurate you want your circuits to be.

My metering method is usually applied here to transmitter circuits where we're looking at measuring hundreds of milliamperes, usually with junkbox mA or uA movements.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.

-----Original Message-----
From: Merton Nellis [mailto:mertnellis@msn.com]
Sent: Saturday, April 05, 2003 6:20 PM
To: ai2q@adelphia.net; qrp-l@Lehigh.EDU
Subject: RE: 50 Amp shunts

Hi Pete and all,
I guess I am a very simple and naive sort of person but I have a hard time seeing that connecting any meter that draws less than 1MA from a 50 Amp, 50 MV shunt (.001 ohms shunt)would cause much error.....

Date: Sun, 6 Apr 2003 13:11:01 -0400
From: "AI2Q" <ai2q@adelphia.net>
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Cc: <mertnellis@msn.com>
Subject: [148628] More high-current metering
Message-ID: <000601c2fc5f$80220100$6401a8c0@alex>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

While we're all talking about high-current metering, I wanted to mention that I have three samples of Allegro Semiconductor's new high current Hall effect sensors, and have successfully simulated, using Electronics Workbench Multi-Sim, an op-amp voltage-to-current converter. The simulations work out very nicely with a zero-center 50-0-50 microammeter in the test circuit. I plan on using a MIL-temp op-amp (-55 degrees F to +125 degrees F) so that the Hall sensor and op-amp can be installed under the hood of my 1960 Austin-Healey 3000. The simulation runs show a very linear response over the full 50-A range of the sensors. BTW, Allegro also makes these for 75 Ampere and 100 Ampere applications.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L #687   .-.-.

Date: Sun, 6 Apr 2003 12:12:33 -0500
From: Wayne Rogers <w5kdj@juno.com>
To: qrp-l@lehigh.EDU
Message-ID: <20030406.121234.-1636301.0.w5kdj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

What time ZULU does the BBQ start???????????

Wayne _ W5KDJ
NW Houston
SV0WWW _ TF2WJN
ARCI_11325 * ARS_1392 * SOC_538

Date: Sun, 6 Apr 2003 10:30:04 -0700
From: "William Phinizy" <k6whp@verizon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [148630] Question: April QST Programming Article
Message-ID: <000501c2fc62$2b1d4bd0$c960e043@sydelpgnr79gmd>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I was reading the I was perusing the April QST article and
came upon the programming series that WB5KIA was writing.
One application he offered was a program to list the sunrise
and sunset times for a given LAT/LON that I wanted to redo
in C++. I read the article but could not get a web reference
nor could I see the actual equations -- only a graph.
Maddeningly, the footnote reference was for an article
written for an article published in 1985 in a Norwegian
magazine (Sadly my subscription had expired). The binary
files were not posted on the ARRL web site as yet.

In fairness, I am a notoriously incareful reader. Questions:

(1) Did I miss something?
(2) Anyone know where the equations can be found (I am
'googling' as we speak!)

Thanks in advance and apologies if this is an oversight on
my part.

72,

Bill, k6whp

End of QRP-L Digest 2882
****